

Constants

1. artefacts
2. Eddington et al - superstunip
3. necessary conditions for complexity
4. some constants have random components
5. Wormhole interactions

We need to use most probable value
consistent with the anisotropy constraint.

— not the most probable value of Ω_b
exists in an absolute sense.

Categories of Thought

random sequences are impossible.

There is a search for compression
(generating algorithm for sequences of
observations).

Human minds look for expressions
that might not be there.

→ Sequence of culturally-conditioned
paradigms -> diagram -> clockwork ->
rest engine -> Sprinkler -> female scientist
Computer -> God is a computer in the sky.

John Barrow: Denies of Everything

History: Mythological accounts

Preconditions for a TDE - Scientific account.

1. Laws
2. Initial conditions
3. Forces, particles
4. Constants
5. Broken symmetries
6. Selection effects
7. Organizing principles
8. Categories of thought

Symmetry Principles - Conservation Laws.

Initial conditions

1. Transcendent distinct from laws.
2. ad hoc - Gödel
3. cosmological, initial conditions
4. no boundary condition
5. nature of time

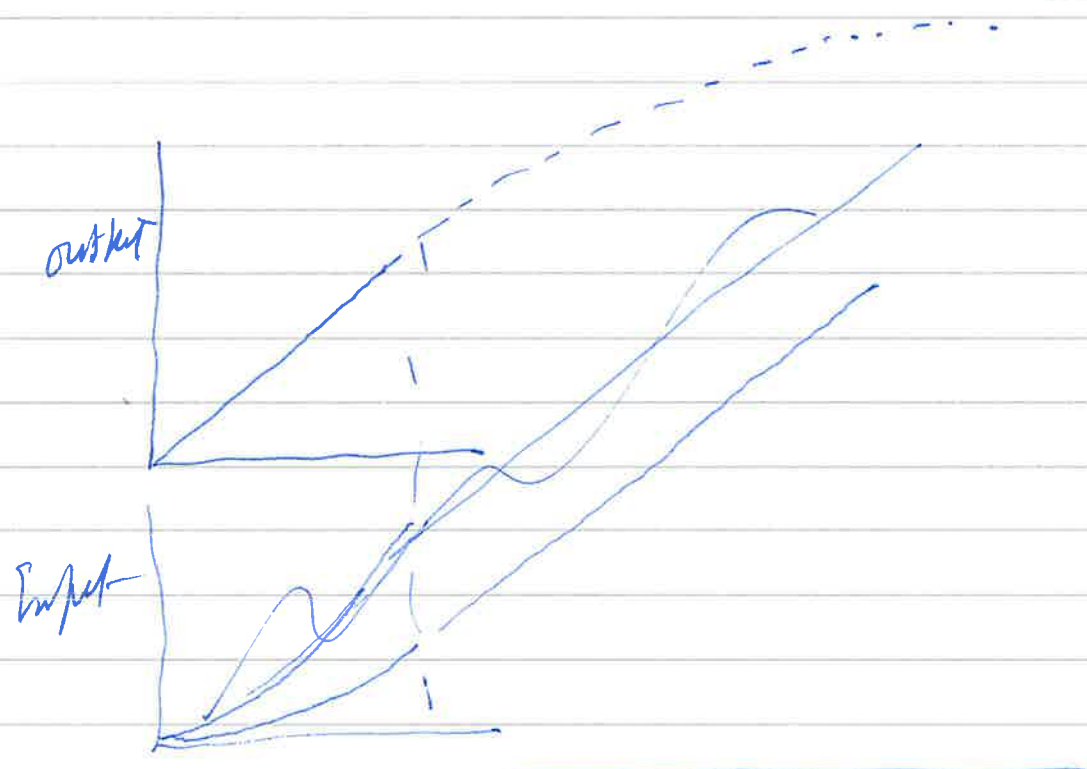
The Limits of Perseus

1. Standard model of science - learn truth about its phenomenal world, world of what exists objectively.
2. Criticism — Positivism - foundationalism
— Relativism
3. Realism & Pragmatism (C.S. Peirce)
Putnam internal realism
phenomenal v. phenomenal reality, Kant
What would a completed science look like?
4. — reduction
deductive explanation
Unification
description versus explanation
— laws of nature — Humean
— necessities
— rob of causation

But: The confirmation gap - autonomy of the sciences
5. Rob of (a) indeterminism
(w) boundary / initial conditions
6. Possibility of a rational physics?
7. objectivity / subjectivity
8. Role of observer
9. Anthropocentric explanation
10. What does science leave out? It comes from somewhere. Man in Nature, holism
Existentialism — Absurd Act of choosing
11. Insolubilia : de Boer-Reynolds v. Ernst Stueckelberg
12. Question paralogisms
13. Progress — cumulative v. non-cumulative

14. Prognostic limitations
 - logarithmic deceleration
 - Multilinear regression

15. Note $B \equiv P \cap (P \rightarrow Q) \approx P \cap (P \supset Q)$
 when $Q \vdash P$ $\approx P \cap (2P \vee Q)$



The World and the Senses

